

AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A recombinant isolated DNA molecule sequence encoding ~~an analog of a~~ mammalian FGF, wherein said mammalian FGF comprises substitution of one or more positively charged amino acid residues located in a heparin binding domain of residues 128 through 138 with a neutral or negatively charged amino acid.
2. (Currently Amended) The isolated DNA molecule sequence of claim 1 which encodes a human FGF protein analog.
3. (Currently Amended) The isolated DNA molecule sequence of claim 2 which encodes a human basic FGF protein analog.
4. (Currently Amended) The isolated DNA molecule sequence of claim 3 which encodes a human basic FGF protein analog with reduced affinity for heparin binding.
5. (Canceled)
6. (Currently Amended) The isolated DNA molecule sequence of claim 5, wherein the neutral or negatively charged amino acid is selected from the group consisting of serine, threonine or glutamic acid.
7. (Currently Amended) The isolated DNA molecule sequence of claim 5, wherein the location and composition of the substituted amino acid is

selected from the group consisting of serine₁₂₈, glutamic acid₁₂₈, threonine₁₂₉, serine₁₂₈/threonine₁₂₉, and serine₁₃₈.

8-14. (Canceled)

15. (Currently Amended) The isolated DNA molecule sequence of claim 3 which is operably linked to control sequences for expression.

16. (Currently Amended) The isolated DNA molecule sequence of claim 15, wherein the control sequences include a transcription termination signal.

17. (Currently Amended) The isolated DNA molecule sequence of claim 3 which is transformed into a recombinant host cell.

18. (Currently Amended) A recombinant vector containing the isolated DNA molecule sequence of claim 3 and effective in expressing said FGF or an analog thereof.

19. (Withdrawn) The vector of claim 18 which is selected from the group consisting of plasmids pUC9-TSF11 and pUC9delH3-pTSF-3.

20. (Currently Amended) The vector of claim 18, wherein the isolated DNA molecule sequence encoding an FGF analog is operably linked to control sequences compatible with bacteria.

21. (Currently Amended) The vector of claim 18, wherein the isolated DNA molecule sequence encoding an FGF analog is operably linked to control sequences compatible with mammalian hosts.

22. (Withdrawn) Recombinant host cells transformed with the

vector of claim 18.

23. (Withdrawn) Bacterial cells transformed with the vector of claim 20.

24. (Withdrawn) Mammalian cells transformed with the vector of claim 21.

25. (Currently Amended) A method for producing a FGF protein analogs which comprises culturing host cells harboring the DNA of claim 3 and recovering the FGF protein analog.

26. (Currently Amended) The method of claim 25, wherein the host cells are bacterial.

27. (Currently Amended) The method of claim 25, wherein the host cells are mammalian.

28-32. (Canceled)